

WHAT IS CLAIMED IS:

1. An anode member for a solid electrolytic capacitor, said anode member comprising a valve metal thin plate and a valve metal powder layer formed on at least one surface of said valve metal thin plate and sintered, said valve metal powder layer having a groove.
2. An anode member as claimed in claim 1, wherein said groove has a depth corresponding to 20% or more of the thickness of said valve metal powder layer.
3. An anode member as claimed in claim 1, wherein said anode member further comprises a grooved portion which corresponds to said valve metal powder layer presented under said groove, said grooved portion having a thickness 50 μ m or less.
4. An anode member as claimed in claim 1, wherein said valve metal powder layer has a thickness 50 μ m or more.
5. An anode member as claimed in claim 1, wherein said groove is formed by masking to said valve metal powder layer before sintering.
6. An anode member as claimed in claim 1, wherein said groove is formed by stamping said valve metal powder layer which is sintered.
7. An anode member as claimed in claim 1, wherein said groove is formed by marking said valve metal powder layer which is sintered.
8. An anode member as claimed in claim 1, wherein said valve metal is niobium (Nb) or tantalum (Ta).
9. A solid electrolytic capacitor comprising an anode member claimed in claim 1, a cathode, and a dielectric member.
10. A method of producing a solid electrolytic capacitor, said method comprising the steps of forming a valve metal powder layer on at least one surface of a valve metal thin plate and sintering said powder layer, said powder layer being provided with a groove.